

| TOTAL CYANIDE IN DRINKING, SALINE AND SURFACE WATERS, AND DOMESTIC AND INDUSTRIAL WASTES<br>SEAL AQ2 METHOD NO: EPA-130-A REVISION 3  |  |   |   |     |          |
|---|--|---|---|-----|----------|
| Facility Name: _____ VELAP ID _____   |  |   |   |     |          |
| Assessor Name: _____ Analyst Name: _____ Inspection Date _____  |  |   |   |     |          |
| Relevant Aspect of Standards  | Method Reference                       | Y | N | N/A | Comments |
| Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____   |  |   |   |     |          |
| Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____  |  |   |   |     |          |
| 1. Is the linear calibration range determined initially, and does it contain a minimum of a blank and three standards?  | Method Supplement 1, Rev. 2 (MS) 3.2.1 |   |   |     |          |
| 2. Is linearity reestablished if any verification data exceeds initial calibration values by $\pm 10\%$ ?   | MS 3.2.1                               |   |   |     |          |
| 3. Is a laboratory control sample analyzed with every batch, and is recovery assessed against current laboratory criteria? <i>NOTE: The laboratory "should" establish upper and lower control limits from control charts based on % recovery.</i> | MS 3.4.3, 3.4.3.4, 3.4.3.5             |   |   |     |          |
| 4. Is at least one method blank carried through all the procedural steps with each batch?   | MS 3.4.1.1                             |   |   |     |          |
| 5. Is the calibration verified using a calibration standard after every ten samples or every analytical batch?  | MS 4.5                                 |   |   |     |          |
| 6. Is a minimum of 10% of all samples spiked with the stock standard?   | MS 3.3.1                               |   |   |     |          |
| 7. For compliance monitoring, is the concentration of the matrix spike at the regulatory limit OR 1 to 5 times higher than the background concentration of the sample?  | MS 3.3.1.1.1                           |   |   |     |          |
| 8. Were absorbencies measured at 578 nm?  | 2.1                                    |   |   |     |          |
| Notes/Comments:   |  |   |   |     |          |

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|--|------------------------------|---|---|-----|----------|
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| Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____   |                              |   |   |     |          |
| 9. Were samples subjected to manual reflux-distillation according to EPA 335.2 or 335.4 prior to analysis by this method?  | 1.4                          |   |   |     |          |
| 10. Were samples that tested positive for the presence of sulfides by lead acetate test paper treated with powdered cadmium carbonate until negative for the presence of sulfides and then filtered? | 4.1                          |   |   |     |          |
| 11. Were samples that tested positive for chlorine on KI Starch paper treated with ascorbic acid until negative for the presence of chlorine?  | 4.2                          |   |   |     |          |
| 12. Was volumetric glassware Class A?  | 6.2                          |   |   |     |          |
| 13. Was Chloramine-T reagent prepared fresh daily?   | 7.1                          |   |   |     |          |
| 14. Was Pyridine Barbituric Acid solution discarded if red-orange precipitate was observed?  | 7.1                          |   |   |     |          |
| 15. Were samples collected in glass or plastic bottles?  | 8.1                          |   |   |     |          |
| 16. Were wastewater samples preserved with NaOH to pH >10 and a reducing agent added if oxidizer present?  | 40CFR136.3 Table 1I,         |   |   |     |          |
| 17. Were wastewater samples held at ≤6°C, and analyzed within 14 days?   | 40CFR136.3 Table 1I          |   |   |     |          |
| 18. For drinking water, were samples adjusted to a pH of 12, chilled to 4°C, and analyzed within 14 days?  | 8.3,<br>40CFR141.40(a)(5)(i) |   |   |     |          |
| 19. For drinking water, were samples that tested positive for sulfides held for no longer than 24 hours?   | 8.3,<br>40CFR141.40(a)(5)(i) |   |   |     |          |
| 20. Were samples and calibration standards matrix matched, that is, 0.25 N Sodium Hydroxide?   | 10.2                         |   |   |     |          |
| 21. Was any distillate that exceeded the calibration range diluted with 0.25N NaOH and not DI water?   | 12.2                         |   |   |     |          |
| Notes/Comments:  |                              |   |   |     |          |